Abstract

Image fusion has lots of application in real life to furnish a combined form of many oriented objects of different images into single image. Adaptive Fuzzy logic model with local level processing is a controlling tool to model image characteristics accurately and been successfully applied to a large number of image processing applications. In this paper an adaptive fuzzy logic model have been proposed with local level processing for fusion of multi-exposure and multi-sensor images. Experimental results demonstrate the superiority of proposed method; it offers approximately 30%-35% improvement in Universal image quality index (UIQI) as compared to Marcov Random Field (MRF) fusion method.

References

2. Z. Wang, D. Ziou, C. Armenakis, D. Li, and Q. Li Jun. 2005 “A comparative analysis of
An Image Fusion Approach based on Adaptive Fuzzy Logic Model with Local Level Processing


Index Terms

Computer Science

Fuzzy Systems
Keywords

Adaptive Fuzzy logic, local level processing, Multiresolution decomposition, Multispectral image fusion